

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 97,022-K2)

In the Application of:

Kenneth A. Giuliano

Serial No. To be assigned

Filing Date: Herewith

For: A System for Cell Based Screening )

Examiner:

Group Art Unit:

09/7/3, 572

PRELIMINARY AMENDMENT

BOX NEW APPLICATION  
Assistant Commissioner for Patent  
Washington, D.C. 20231

Dear Sir,

Please amend the application as follows:

*In the Specification:*

Before the first line please insert:

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a Continuation of U.S. Application Serial No. 09/430,656 filed on  
October 29, 1999.

*In the claims:*

Please cancel claims 1-9 and 18-23.

*Please amend the claims as follows:*

12. (Amended) The recombinant protease biosensor of claim [10 or] 11 further  
comprising a fifth domain comprising at least one detectable polypeptide signal, wherein the fifth  
domain and the first domain are separated by the second domain.

09/11/3, 572

13. (Amended) The protease biosensor of claim 10[-12] wherein the detectable polypeptide signal is selected from the group consisting of fluorescent proteins, luminescent proteins, sequence eptiopes, and co-factor requiring fluorescent or luminescent proteins.

14. (Amended) The protease biosensor of claim 10[-12] wherein the detectable polypeptide signal domain comprises a sequence selected from the group consisting of SEQ ID NOS:36, 38, 40, 42, 44, 46, 48, 50, and 52.

17. (Amended) A recombinant protease biosensor comprising [comprises] a sequence substantially similar to sequences selected from the group consisting of SEQ ID NO:2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, and 34.

*Please add the following new claims:*

24. The protease biosensor of claim 11 wherein the detectable polypeptide signal is selected from the group consisting of fluorescent proteins, luminescent proteins, sequence eptiopes, and co-factor requiring fluorescent or luminescent proteins.

25. The protease biosensor of claim 12 wherein the detectable polypeptide signal is selected from the group consisting of fluorescent proteins, luminescent proteins, sequence eptiopes, and co-factor requiring fluorescent or luminescent proteins.

26. The protease biosensor of claim 11 wherein the detectable polypeptide signal domain comprises a sequence selected from the group consisting of SEQ ID NOS:36, 38, 40, 42, 44, 46, 48, 50, and 52.

27. The protease biosensor of claim 12 wherein the detectable polypeptide signal domain comprises a sequence selected from the group consisting of SEQ ID NOS:36, 38, 40, 42, 44, 46, 48, 50, and 52.

28. The protease biosensor of claim 11 wherein the second domain comprising a protease recognition site comprises a sequence selected from the group consisting of SEQ ID NOS:54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, and 122.

29. The protease biosensor of claim 12 wherein the second domain comprising a protease recognition site comprises a sequence selected from the group consisting of SEQ ID NOS:54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, and 122.

09/713,572

30. The protease biosensor of claim 11 wherein the reactant target sequence domain comprise a sequence selected from the group consisting of SEQ ID NOS:124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, and 152.

31. The protease biosensor of claim 12 wherein the reactant target sequence domain comprise a sequence selected from the group consisting of SEQ ID NOS:124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, and 152.


**Support for the new claims and amendments:**

The amendments and new claims merely remove the multiple dependency in the original claims, or correct typographical errors, and thus do not constitute new matter.

If there are any questions or comments regarding this Preliminary Amendment, the Examiner is encouraged to contact the undersigned patent agent as indicated below.

Respectfully submitted,

Date: 11/15/2012

  
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